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AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all previous versions, and listings, of

claims in the Application.

**Listing of Claims:** 

Claims 1-21 (Canceled).

22. (Previously presented) A system for processing voice for communication

over a network comprising:

a processing circuit for managing the packetization of digital voice data

representative of analog voice signals to provide digital voice data packets and for

managing the depacketization of digital voice data, the processing circuit packetizing

the digital voice data according to a packet protocol; and

a transceiver circuit for wireless transmission and wireless reception according to

a wireless communication protocol of the digital voice data packets, wherein the digital

voice data packets comprise destination information used for routing the digital voice

data packets.

23. (Previously presented) A system as recited in claim 22 wherein the packet

protocol comprises an internet protocol.

24. (Previously presented) A system as recited in claim 23 wherein the internet

protocol is TCP/IP.

25. (Previously presented) A system as recited in claim 22 wherein the wireless

transmission and reception of digital voice data packets is in accordance with a spread

spectrum frequency hopping communication protocol.

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26. (Previously presented) A system as recited in claim 22 wherein the wireless

transmission and reception of digital voice data packets is in accordance with a direct

sequence spread spectrum communication protocol.

27. (Previously presented) A system as recited in claim 22 wherein the wireless

transmission and reception of digital voice data packets utilizes a communication

protocol with a plurality of data rates including at least a standard data rate and a higher

data rate.

28. (Previously presented) A system for processing voice for communication

over a network comprising:

conversion circuitry for converting analog voice signals to digital voice data and

for converting digital voice data to analog voice signals for the reproduction of voice;

a processing circuit for managing the packetization of digital voice data to provide

digital voice data packets and for managing the depacketization of digital voice data, the

processing circuit packetizing the digital voice data according to a packet protocol; and

a transceiver circuit for wireless transmission and wireless reception according to

a wireless communication protocol of the digital voice data packets, wherein the digital

voice data packets comprise destination information used for routing the digital voice

data packets.

29. (Previously presented) A method for processing voice for a communication

network comprising:

packetizing digital voice data representing analog voice signals according to a

packet protocol, wherein the digital voice data packets comprise destination information

used for routing the digital voice data packets through the communication network; and

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wirelessly transmitting, in accordance with a wireless communication protocol,

the digital voice data packetized according to a packet protocol.

30. (Previously presented) A method as recited in claim 29 wherein the packet

protocol comprises an internet protocol.

31. (Previously presented) A method as recited in claim 30 wherein the internet

protocol is TCP/IP.

32. (Previously presented) A method as recited in claim 29 further comprising

converting analog voice signals to digital voice data.

33. (Previously presented) A method as recited in claim 29 wherein the wireless

communication protocol is a spread spectrum frequency hopping communication

protocol.

34. (Previously presented) A method as recited in claim 29 wherein the wireless

communication protocol is a direct sequence spread spectrum communication protocol.

35. (Previously presented) A method as recited in claim 29 wherein the wireless

communication protocol accommodates a plurality of data rates.

36. (Previously presented) A method for processing voice for a communication

network comprising:

packetizing digital voice data according to a packet protocol, wherein the digital

voice data is packetized according to a packet protocol comprising destination

information used for routing the digital voice data packetized according to the packet

protocol through the communication network;

wirelessly transmitting, in accordance with a wireless communication protocol,

the digital voice data packetized according to a packet protocol;

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wirelessly receiving, in accordance with the wireless communication protocol, digital voice data packetized according to a packet protocol;

depacketizing the digital voice data; and

converting the digital voice data to analog voice signals.

- 37. (Previously presented) A method as recited in claim 36 wherein the packet protocol comprises an internet protocol.
- 38. (Previously presented) A method as recited in claim 37 wherein the internet protocol is TCP/IP.
- 39. (Previously presented) A method as recited in claim 36 further comprising converting analog voice signals to digital voice data.
- 40. (Previously presented) A method as recited in claim 36 wherein the wireless communication protocol is a spread spectrum frequency hopping communication protocol.
- 41. (Previously presented) A method as recited in claim 36 wherein the wireless communication protocol is a direct sequence spread spectrum.
- 42. (Previously presented) A method as recited in claim 36 wherein the wireless communication protocol accommodates a plurality of data rates.
- 43. (Previously presented) A system for processing voice for communication over a network comprising:

a processing circuit for managing the packetization of digital voice data to provide digital voice data packets and for managing the depacketization of digital voice data packets, the processing circuit packetizing the digital voice data according to a packet

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protocol, wherein the digital voice data packets comprise destination information used

for routing the digital voice data packets through the network;

a transceiver for wireless transmission and wireless reception of the digital voice

data packets; and

a media access controller for controlling the operations of the transceiver to

transmit and receive information according to a wireless communication protocol.

44. (Previously presented) A system as recited in claim 43 wherein the packet

protocol comprises an internet protocol.

45. (Previously presented) A system as recited in claim 44 wherein the internet

protocol is TCP/IP.

46. (Previously presented) A system as recited in claim 43 further comprising

conversion circuitry for converting analog voice signals to digital voice data and for

converting digital voice data to analog voice signals for the reproduction of voice.

47. (Previously presented) A system for processing voice for communication

over a network comprising:

a processing circuit for managing the packetization of digital voice data to provide

digital voice data packets and for managing the depacketization of digital voice data,

wherein the digital voice packets comprise destination information used for routing the

digital voice packets through the network, the processing circuit packetizing the digital

voice data according to a packet protocol; and

a radio operating in accordance with a communication protocol for transmitting

and receiving digital voice data packets.

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48. (Previously presented) A system as recited in claim 47 wherein the packet

protocol comprises an internet protocol.

49. (Previously presented) A system as recited in claim 48 wherein the internet

protocol is TCP/IP.

50. (Previously presented) A system as recited in claim 47 further comprising

conversion circuitry for converting analog voice signals to digital voice data and for

converting digital voice data to analog voice signals for the reproduction of voice.

51. (Previously presented) A system for processing voice for communication

over a network comprising:

a processing circuit for managing the packetization of digital voice data to provide

digital voice data packets and for managing the depacketization of digital voice data,

wherein the digital voice packets comprise destination information used for routing the

digital voice packets through the network, the processing circuit packetizing the digital

voice data according to a packet protocol;

a radio for wireless transmission and reception of digital voice data packets; and

a processor for controlling the operation of the radio according to a

communication protocol that accommodates a plurality of data rates including at least a

standard data rate and a higher data rate.

52. (Previously presented) A system as recited in claim 51 wherein the packet

protocol comprises an internet protocol.

53. (Previously presented) A system as recited in claim 52 wherein the internet

protocol is TCP/IP.

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54. (Previously presented) A system as recited in claim 51 further comprising conversion circuitry for converting analog voice signals to digital voice data and for converting digital voice data to analog voice signals for the reproduction of voice.

- 55. (Previously presented) A system as recited in claim 47 wherein the radio comprises a 2.4GHz radio.
- 56. (Previously presented) A system as recited in claim 55 wherein the radio operates in accordance with a frequency hopping communication protocol.
- 57. (Previously presented) A system as recited in claim 47 wherein the radio operates in accordance with a frequency hopping communication protocol.
- 58. (Previously presented) A system as recited in claim 47 wherein the radio operates in accordance with a spread spectrum communication protocol.
- 59. (Previously presented) A system as recited in claim 58 wherein the radio operates in accordance with a frequency hopping communication protocol.
- 60. (Currently amended) One or more circuits for use in a handheld communication device supporting the exchange of voice over a communication network, the one or more circuits comprising:

at least one interface to circuitry for transmitting and receiving over a radio frequency channel, packets comprising <u>packetized</u> digital voice data <del>packetized</del> according to a packet protocol; and

at least one processor operably coupled to the at least one interface, the at least one processor operable operating to, at least,

convert analog voice signals at a first user location to first digital voice data;

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packetize the first digital voice data according to the packet protocol to

produce first digital voice data packets, wherein the first digital voice data

packets comprise destination information used for routing the first digital voice

data packets through the communication network to a second user user, and

wherein the first digital voice data is not packetized for transmission when

representative of audio signals below a predetermined threshold level;

wirelessly transmit, in accordance with a wireless communication protocol,

the first digital voice data packets;

wirelessly receive, in accordance with the wireless communication

protocol, second digital voice data packets;

depacketize the second digital voice data packets to produce second

digital voice data; and

convert the second digital voice data to analog voice signals at the

location of the second first user.

61. (Previously presented) The one or more circuits of claim 60 wherein the

packet protocol comprises an Internet protocol (IP).

62. (Previously presented) The one or more circuits of claim 61 wherein the

Internet protocol is the transmission control protocol (TCP)/Internet protocol (IP)

protocol.

63. (Previously presented) The one or more circuits of claim 60 wherein the at

least one processor queues received second digital voice data, and delays conversion

of queued second digital voice data for an adjustable period of time.

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64. (Previously presented) The one or more circuits of claim 63 wherein the at least one processor adjusts the period of time based upon a network propagation delay.

65. (Previously presented) The one or more circuits of claim 63 wherein the at

least one processor determines the adjustable period of time using a packet sent to the

handheld communication device in response to a packet sent by the handheld

communication device.

66. (Previously presented) The one or more circuits of claim 65 wherein the

packet sent by the communication device is a test packet.

67. (Previously presented) The one or more circuits of claim 60 wherein the

wireless communication employs a frequency of approximately 2.4 gigahertz.

68. (Previously presented) The one or more circuits of claim 60 wherein the

handheld communication device employs a frequency hopping spread spectrum

technique.

69. (Previously presented) The one or more circuits of claim 60 wherein the

handheld communication device employs a direct sequence spread spectrum

technique.

70. (Currently amended) The one or more circuits of claim 60 wherein the at

least one processor is further operable operates to cause routing of digital voice data

packets over a wired network.

71. (Previously presented) The one or more circuits of claim 70 wherein the

routing of a call is selected by the first user.

72. (Previously presented) The one or more circuits of claim 70 wherein the

wired network is a packet network.

73. (Previously presented) The one or more circuits of claim 70 wherein the

wired network is a public switched telephone network.